

Oxygen Cloud

Oxygen Authentication Connector 2.8.8



RSA SecurID Ready Implementation Guide

Last Modified: 2/5/2013

Partner Information

Product Information	
Partner Name	Oxygen Cloud Inc.
Web Site	www.oxygencloud.com
Product Name	Oxygen Authentication Connector
Version & Platform	2.8.8
Product Description	Oxygen's Enterprise Cloud enables enterprises to support secure mobile access to corporate files from any tablet, smartphone or computer. Oxygen is a cloud service that integrates with your existing AD/LDAP systems for identity management, as well as private storage and public storage, allowing for greater control and security over your valuable data.

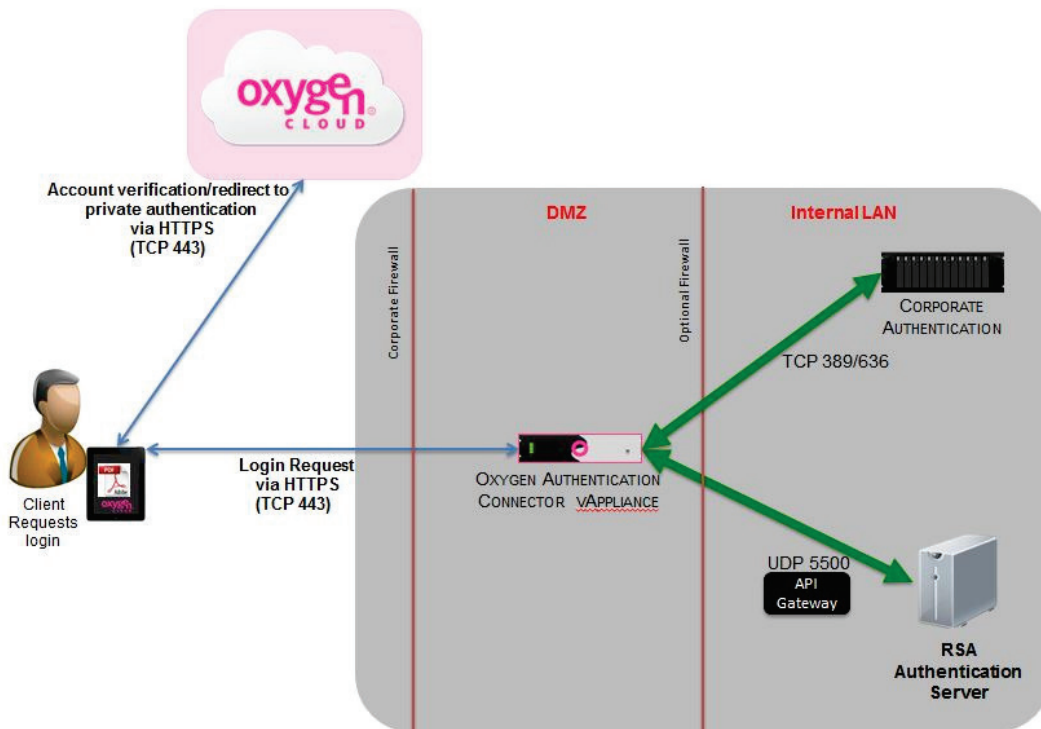


Solution Summary

Oxygen's Enterprise Cloud enables enterprises to support smart access to corporate files from any device, including Windows, Mac, iOS, Android and browser-enabled clients. Oxygen is a cloud service that integrates with your existing AD/LDAP systems for identity management, as well as private storage and public storage, allowing for greater control and security over your valuable data. Oxygen supports RSA SecurID two-factor authentication, providing additional protection for end users and added control for enterprise.

Oxygen's Authentication Connector interfaces directly with RSA's SecurID Authentication server with Native RSA SecurID Protocol for maximum efficiency and functionality with minimal overhead.

Oxygen + RSA SecurID Diagram




RSA SecurID supported features Oxygen Authentication 2.8.8	
RSA SecurID Authentication via Native RSA SecurID Protocol	Yes
RSA SecurID Authentication via RADIUS Protocol	No
On-Demand Authentication via Native SecurID Protocol	Yes
On-Demand Authentication via RADIUS Protocol	No
RSA Authentication Manager Replica Support	Yes
Secondary RADIUS Server Support	No
RSA SecurID Software Token Automation	No
RSA SecurID SD800 Token Automation	No
RSA SecurID Protection of Administrative Interface	Yes

Authentication Agent Configuration

Agent Host Records contain information that allows an RSA Authentication Manager server to locate its clients and establish secure communication channels with them. The server's database must contain an Agent Host Record to identify each Oxygen Authentication Connector installed in your environment.

The following information is required in order to create an Agent Host record:

- the hostname of each Oxygen Authentication Connector in your environment
- IP address for all of the network interfaces on each Oxygen Authentication Connector host

 **Note:** Each hostname must resolve to a valid IP address on the local network.

You should also set the record's **Agent Type** to *Standard Agent*. RSA Authentication Manager uses this value to determine how it will establish communication with the connector.

RSA SecurID files

RSA SecurID Authentication Files	
Files	Location
sdconf.rec	Path to sdconf.rec (only accessible to Oxygen reps)
Node Secret	Path to Node Secret (only accessible to Oxygen reps)
sdstatus.12	Path to sdstatus.12 (only accessible to Oxygen reps)
sdopts.rec	Not implemented

Partner Product Configuration

Before You Begin

This section provides instructions to enable RSA SecurID two-factor authentication for Oxygen Authentication VM end-users. You should have working knowledge of Oxygen Cloud and RSA Authentication Manager, and access to the appropriate end-user and administrative documentation. Ensure that both products are running properly prior to configuring the integration.

Note that this document is not intended to suggest optimum installations or configurations.

Installation Requirements:

Your authorized Oxygen representative will perform the low-level configuration steps necessary to enable RSA SecurID authentication. This section contains prerequisites you must complete beforehand.

Hardware Requirements:

Recommended: 8 cores @ 2.4Ghz (Xeon E5/E7 Series), 4GB RAM, 50GB HD

Software Requirements:


- Oxygen Cloud Account
- VMware ESX, ESXi (4.0, 4.1, 5.0+) vSphereClient and Hyper-V are supported

 **Note:** You can sign up for an Oxygen Cloud account at <http://oxygencloud.com>.

Prerequisite Instructions


- Install the latest Oxygen Cloud client on your workstation or mobile device. You can download clients at <http://oxygencloud.com/download>.
- Prepare a static internal/private IP address. Your Oxygen representative will assign this address to the Oxygen VM.
- Map port 443 (SSL) from your external/public IP address to the static private IP address of the Oxygen VM.
- Configure your firewall to:
 - whitelist *.oxygencloud.com
 - allow inbound traffic from your external IP address over HTTPS port 443.
 - allow inbound d2o54ray40ht1h.cloudfront.net to enable desktop client auto-updates
- Generate an *sdconf.rec* file on your RSA Authentication Manager server and deliver it to your Oxygen representative.
- Ensure your storage is set up and accessible to the Oxygen VM.

Consult your assigned Oxygen representative for more information.


 **Note:** Contact your Oxygen representative if you need to clear your node secret during the course of operation. Consult your *RSA Access Manager Administrator's Guide* for more information about node secrets.

Screenshots

Login screen:

<p>Oxygen Web Client Login</p> <p>Don't have an account? Contact your company's account administrator to get access. New users without a corporate account can signup for an account here.</p> <p>Oxygen ID SolutionsRoad Warrior</p> <p>Continue</p>	 <p>Username <input type="text" value="AD Login ID"/></p> <p>Password <input type="text" value="AD Password"/></p> <p>Passcode <input type="text" value="RSA PIN and/or Tokencode"/></p> <p>Login</p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

User-defined New PIN:



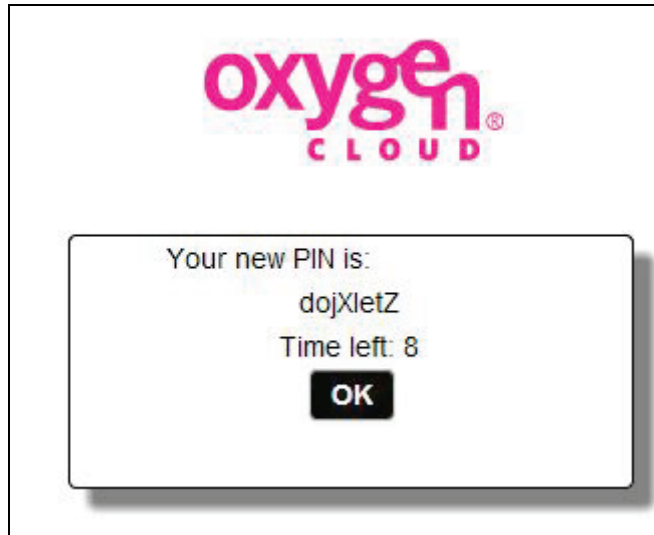
New RSA PIN is required.
PIN should be between 4 and 8 letters.

PIN:

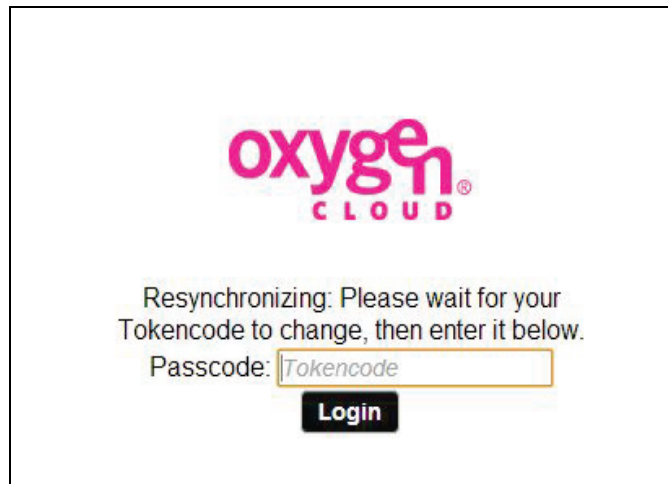
Confirm PIN:

OK

System-generated PIN:



Next Tokencode:



Certification Checklist for RSA Authentication Manager

Date Tested: February 1, 2013

Certification Environment		
Product Name	Version Information	Operating System
RSA Authentication Manager	7.1 SP4	CentOS
RSA Authentication API	8.1.2	Windows 7
Oxygen Authentication VM	2.8.8	Hardened LINUX
Oxygen Authentication Connector	2.8.8	Hardened LINUX

Mandatory Functionality			
RSA Native Protocol		RADIUS Protocol	
New PIN Mode			
Force Authentication After New PIN	<input checked="" type="checkbox"/>	Force Authentication After New PIN	<input type="checkbox"/> N/A
System Generated PIN	<input checked="" type="checkbox"/>	System Generated PIN	<input type="checkbox"/> N/A
User Defined (4-8 Alphanumeric)	<input checked="" type="checkbox"/>	User Defined (4-8 Alphanumeric)	<input type="checkbox"/> N/A
User Defined (5-7 Numeric)	<input checked="" type="checkbox"/>	User Defined (5-7 Numeric)	<input type="checkbox"/> N/A
Deny 4 and 8 Digit PIN	<input checked="" type="checkbox"/>	Deny 4 and 8 Digit PIN	<input type="checkbox"/> N/A
Deny Alphanumeric PIN	<input checked="" type="checkbox"/>	Deny Alphanumeric PIN	<input type="checkbox"/> N/A
Deny Numeric PIN	<input checked="" type="checkbox"/>	Deny Numeric PIN	<input type="checkbox"/> N/A
Deny PIN Reuse	<input checked="" type="checkbox"/>	Deny PIN Reuse	<input type="checkbox"/> N/A
Passcode			
16-Digit Passcode	<input checked="" type="checkbox"/>	16-Digit Passcode	<input type="checkbox"/> N/A
4-Digit Fixed Passcode	<input checked="" type="checkbox"/>	4-Digit Fixed Passcode	<input type="checkbox"/> N/A
Next Tokencode Mode			
Next Tokencode Mode	<input checked="" type="checkbox"/>	Next Tokencode Mode	<input type="checkbox"/> N/A
On-Demand Authentication			
On-Demand Authentication	<input checked="" type="checkbox"/>	On-Demand Authentication	<input type="checkbox"/> N/A
On-Demand New PIN	<input checked="" type="checkbox"/>	On-Demand New PIN	<input type="checkbox"/> N/A
Load Balancing / Reliability Testing			
Failover (3-10 Replicas)	<input checked="" type="checkbox"/>	Failover	<input type="checkbox"/> N/A
No RSA Authentication Manager	<input checked="" type="checkbox"/>	No RSA Authentication Manager	<input type="checkbox"/> N/A

JGS / PAR

✓ = Pass ✗ = Fail N/A = Not Applicable to Integration

Appendix

Partner Integration Details	
RSA SecurID API	8.1.2
RSA SecurID User Specification	Designated Users
Display RSA Server Info	No
Perform Test Authentication	No
Agent Tracing	Yes (only accessible to Oxygen reps)